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In the Abstract:

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ABSTRACT OF THE DISCLOSURE

A ceramic envelope for a high intensity discharge lamp ~~comprises:~~is provided including a cylindrical barrel section ~~1 that forms~~forming an electric discharge light emitting space; and having annular closing sections ~~2, 2 that close~~closing both ends of the barrel section ~~1, respectively,~~ and capillary sections ~~3, 3 that insert and fix an electric discharge electrode to be~~protrude outwardly ~~protruded~~ so as to ~~be opposed to~~oppose each other from the substantial center of both of the closing sections. The envelope essentially consists of alumina, and is formed to have light transmission properties by adding MgO. Then, the thickness of the barrel section at the boundary between the barrel section ~~1 and the closing section 2~~ is ~~formed to be increased in thickness by providing a tapered section 4a to the thickness in the vicinity of the center of an electric discharge light emitting space. In this way, there is provided~~Thus, a high emitting envelope for high intensity discharge lamp capable of extending the service life of the lamp can be provided, even if the electric discharge space is cylindrical.